

**IMPROVED AUDIO SYSTEM WITH ACOUSTIC SHOCK CONTROL**  
**ABSTRACT OF DISCLOSURE**

5           A cellular telephone (100, 1300) comprises an earpiece speaker (234, 1312) and a loudspeaker (238, 1316) that share a common resonator (e.g., 1436). Sharing a common resonator allows the common resonator to be made large thereby improving bass response. Undesirable acoustic coupling through the common resonator is addressed by driving the earpiece speaker with a cancellation filtered version of the  
10           loudspeaker drive signal when the loudspeaker is driven.